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* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 MAY 01 New CAS web site launched
NEWS 3 MAY 08 CA/CAPLUS Indian patent publication number format defined
NEWS 4 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 5 MAY 21 BIOSIS reloaded and enhanced with archival data
NEWS 6 MAY 21 TOXCENTER enhanced with BIOSIS reload
NEWS 7 MAY 21 CA/CAPLUS enhanced with additional kind codes for German patents
NEWS 8 MAY 22 CA/CAPLUS enhanced with IPC reclassification in Japanese patents
NEWS 9 JUN 27 CA/CAPLUS enhanced with pre-1967 CAS Registry Numbers
NEWS 10 JUN 29 STN Viewer now available
NEWS 11 JUN 29 STN Express, Version 8.2, now available
NEWS 12 JUL 02 LEMBASE coverage updated
NEWS 13 JUL 02 LMEDEX coverage updated
NEWS 14 JUL 02 SCISEARCH enhanced with complete author names
NEWS 15 JUL 02 CHEMCATS accession numbers revised
NEWS 16 JUL 02 CA/CAPLUS enhanced with utility model patents from China
NEWS 17 JUL 16 CAPLUS enhanced with French and German abstracts
NEWS 18 JUL 18 CA/CAPLUS patent coverage enhanced
NEWS 19 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 20 JUL 30 USGENE now available on STN
NEWS 21 AUG 06 CAS REGISTRY enhanced with new experimental property tags
NEWS 22 AUG 06 BEILSTEIN updated with new compounds
NEWS 23 AUG 06 FSTA enhanced with new thesaurus edition
NEWS 24 AUG 13 CA/CAPLUS enhanced with additional kind codes for granted patents

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:29:53 ON 15 AUG 2007

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=> file reg
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                0.21         0.21
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FILE 'REGISTRY' ENTERED AT 10:30:10 ON 15 AUG 2007
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 DICTIONARY FILE UPDATES: 14 AUG 2007 HIGHEST RN 944643-48-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

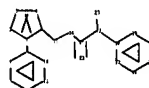
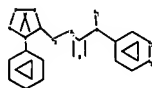
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
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 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>
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chain nodes :
13 14 15 22 23 27
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 16 17 18 19 20 21
chain bonds :
1-9 5-13 13-14 14-15 15-22 15-23 18-22 22-27
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 16-17 16-21 17-18
18-19 19-20 20-21
exact/norm bonds :
1-2 1-5 1-9 2-3 3-4 4-5 5-13 13-14 14-15 15-22 15-23 16-17 16-21 17-18
18-19 18-22 19-20 20-21 22-27
normalized bonds :
6-7 6-11 7-8 8-9 9-10 10-11
```

G1:O,S

G2:C,N

G3:H,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 13:CLASS 14:CLASS 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom
21:Atom 22:CLASS 23:CLASS 27:CLASS

L1 STRUCTURE UPLOADED

=> s l1 sam

SAMPLE SEARCH INITIATED 10:30:43 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 344 TO ITERATE

100.0% PROCESSED 344 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 5768 TO 7992

PROJECTED ANSWERS: 3853 TO 5707

L2 50 SEA SSS SAM L1

=> d 1

L2 ANSWER 1 OF 50 REGISTRY COPYRIGHT 2007 ACS on STN

RN 939925-94-7 REGISTRY

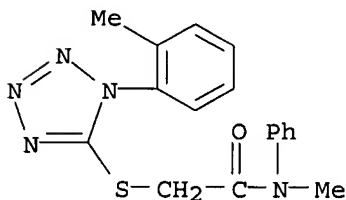
ED Entered STN: 28 Jun 2007

CN Acetamide, N-methyl-2-[[1-(2-methylphenyl)-1H-tetrazol-5-yl]thio]-N-phenyl-
(CA INDEX NAME)

MF C17 H17 N5 O S

SR Chemical Library

Supplier: AKos Consulting and Solutions GmbH



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> s l1 full

FULL SEARCH INITIATED 10:31:28 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 6351 TO ITERATE

100.0% PROCESSED 6351 ITERATIONS 4346 ANSWERS
SEARCH TIME: 00.00.01

L3 4346 SEA SSS FUL L1

=> file caplus medline
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 174.95 | 175.16 |

FILE 'CAPLUS' ENTERED AT 10:32:14 ON 15 AUG 2007
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COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 10:32:14 ON 15 AUG 2007

=> s l3
L4 21 L3

=> d ibib abs 1-21

L4 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:137435 CAPLUS

DOCUMENT NUMBER: 146:371809

TITLE: High-throughput assay for the identification of Hsp90 inhibitors based on Hsp90-dependent refolding of firefly luciferase

AUTHOR(S): Galam, Lakshmi; Hadden, M. Kyle; Ma, Zeqiang; Ye, Qi-Zhuang; Yun, Bo-Geon; Blagg, Brian S. J.; Matts, Robert L.

CORPORATE SOURCE: Department of Biochemistry and Molecular Biology, NRC 246, Oklahoma State University, Stillwater, OK, 74078, USA

SOURCE: Bioorganic & Medicinal Chemistry (2007), 15(5), 1939-1946

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Previously, we have demonstrated that the renaturation of heat denatured firefly luciferase is dependent upon the activity of Hsp90 in rabbit reticulocyte lysate. Here, we demonstrate that this assay may identify inhibitors that obstruct the chaperone activity of Hsp90 either by direct binding to its N-terminal or C-terminal nucleotide binding sites or by interference with the ability of the chaperone to switch conformations. The assay was adapted and optimized for high-throughput screening. Greater than 20,000 compds. were screened to demonstrate the feasibility of using this assay on a large scale. The assay was reproducible (av Z-factor = 0.62) and identified 120 compds. that inhibited luciferase renaturation by greater than 70% at a concentration of 12.5 µg/mL. IC50 values for twenty compds. with varying structures were determined for inhibition of luciferase refolding and in cell-based assays for Hsp90 inhibition. Several compds. had IC50 values <10 µM and represent a number of new lead structures with the potential for further development and optimization as potent Hsp90 inhibitors.

REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:315155 CAPLUS

DOCUMENT NUMBER: 145:8103

TITLE: Tetrazole thioacetanilides: Potent non-nucleoside inhibitors of WT HIV reverse transcriptase and its K103N mutant

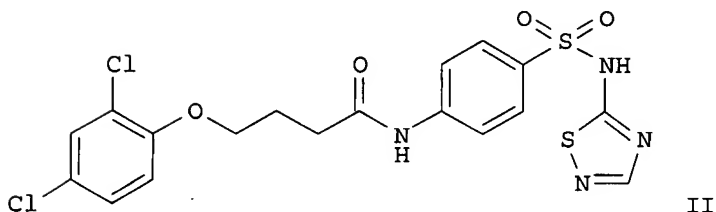
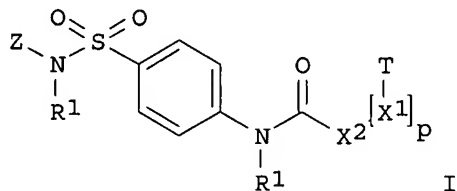
AUTHOR(S): Muraglia, Ester; Kinzel, Olaf D.; Laufer, Ralph; Miller, Michael D.; Moyer, Gregory; Munshi, Vandna; Orvieto, Federica; Palumbi, Maria Cecilia; Pescatore, Giovanna; Rowley, Michael; Williams, Peter D.; Summa,

Vincenzo
CORPORATE SOURCE: Department of Medicinal Chemistry, IRBM/MRL Rome,
Rome, 00040, Italy
SOURCE: Bioorganic & Medicinal Chemistry Letters (2006),
16(10), 2748-2752
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:8103
AB A series of aryltetrazolylacetanilides was synthesized and evaluated as
HIV-1 non-nucleoside reverse transcriptase inhibitors on wild-type virus
and on the clin. relevant K103N mutant strain. Extensive SAR
investigation led to potent compds., with nanomolar activity on K103N, and
orally bioavailable in rats.
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:103871 CAPLUS
DOCUMENT NUMBER: 144:192238
TITLE: Preparation of N-(4-sulfamoylphenyl) amides as
inhibitors of voltage-gated sodium channels
INVENTOR(S): Gonzalez, Jesus E.; Termin, Andreas P.; Martinborough,
Esther; Zimmerman, Nicole
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 353 pp., Cont.-in-part of U.S.
Ser. No. 914,988.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 2006025415 | A1 | 20060202 | US 2005-60719 | 20050217 |
| US 2005137190 | A1 | 20050623 | US 2004-914988 | 20040809 |
| PRIORITY APPLN. INFO.: | | | US 2003-493659P | P 20030808 |
| | | | US 2004-584717P | P 20040704 |
| | | | US 2004-914988 | A2 20040809 |

OTHER SOURCE(S): CASREACT 144:192238; MARPAT 144:192238
GI



AB The title compds. I [R1 = H, (un)substituted alkyl; X1 = O, S, (un)substituted NH; p = 0-1; X2 = (un)substituted alkylene; Z = thiazolyl, imidazolyl, oxazolyl, etc.; T = (un)substituted Ph, 8-14 membered (non)aromatic bicyclic or tricyclic ring having 0-5 heteroatoms selected from O, S, N, NH, SO, SO₂, etc.], useful as inhibitors of voltage-gated sodium channels, were prepared E.g., a multi-step synthesis of II, starting from 2,4-dichlorophenol and Et 4-bromobutyrate, was given. The compds. I were found to inhibit voltage-gated sodium channels at 25.0 µM or less. I were also found possess desired N-type calcium channel modulation activity and selectivity (no data given). The invention also provides pharmaceutically acceptable compns. comprising the compds. I and methods of using the compns. in the treatment of various disorders.

L4 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1311545 CAPLUS

DOCUMENT NUMBER: 144:51586

TITLE: Preparation of acetamide derivatives as reverse transcriptase inhibitors for treatment of HIV

INVENTOR(S): Deroy, Patrick; Faucher, Anne-Marie; Gagnon, Alexandre; Landry, Serge; Morin, Sebastien; O'Meara, Jeffrey; Simoneau, Bruno; Thavonekham, Bounkham; Yoakim, Christiane

PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany; Boehringer Ingelheim Pharma GmbH & Co KG

SOURCE: PCT Int. Appl., 206 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

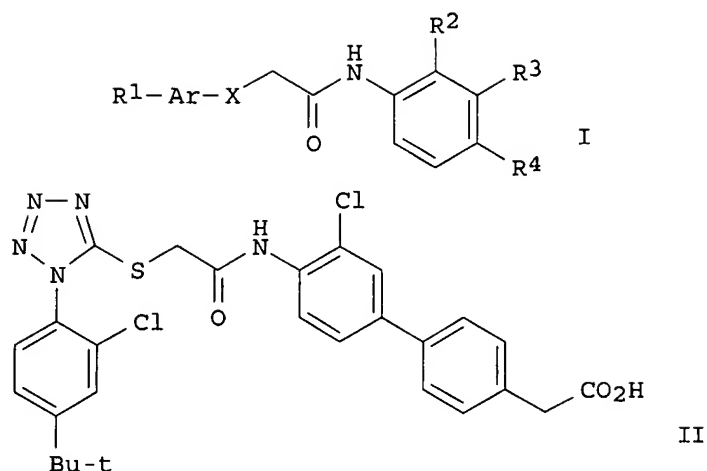
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| WO 2005118575 | A1 | 20051215 | WO 2005-CA907 | 20050530 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| US 2005282907 | A1 | 20051222 | US 2005-137831 | 20050524 |
| CA 2555633 | A1 | 20051215 | CA 2005-2555633 | 20050530 |
| EP 1756091 | A1 | 20070228 | EP 2005-757660 | 20050530 |
| R: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | |
| PRIORITY APPLN. INFO.: | | | US 2004-575888P | P 20040601 |
| | | | WO 2005-CA907 | W 20050530 |

OTHER SOURCE(S): CASREACT 144:51586; MARPAT 144:51586

GI



AB The title compds. I [wherein Ar = (un)substituted 5-membered aromatic heterocycle; X = O or S; R1 = (un)substituted Ph; R2 = halo, NO2, or alkyl; R3 = H or halo; R4 = (un)substituted Ph, alkenyl, heteroaryl, etc.] or enantiomers, diastereomers, tautomers, or pharmaceutically acceptable salts thereof were prepared as reverse transcriptase inhibitors against wild type and single or double mutant strains of HIV for the treatment or prophylaxis of HIV infection. For example, the compound II was prepared in a multi-step synthesis. The enzymic assay was conducted.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1291889 CAPLUS

DOCUMENT NUMBER: 144:36351

TITLE: Preparation of tetrazolyl derivatives as HIV reverse transcriptase inhibitors

INVENTOR(S) : Shaw-Reid, Cathryn A.; Miller, Michael D.; Hazuda, Daria J.; Ferrer, Marc; Sur, Sylvie M.; Summa, Vincenzo; Lyle, Terry A.; Kinzel, Olaf; Pescatore, Giovanna; Muraglia, Ester; Orvieto, Federica; Williams, Peter D.

PATENT ASSIGNEE(S) : Merck & Co., Inc., USA; Istituto di Ricerche di
Biologia Molecolare P. Angeletti S.p.A.

SOURCE: PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| ----- | ---- | ----- | ----- | ----- |
| WO 2005115147 | A2 | 20051208 | WO 2005-US16671 | 20050512 |
| WO 2005115147 | A3 | 20070419 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT | | | |

RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG, AP, EA, EP, OA

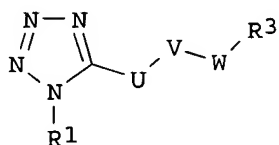
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US 2004-572168P

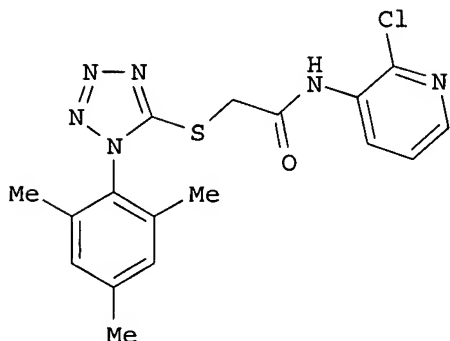
P 20040518

OTHER SOURCE(S): MARPAT 144:36351

GI



I



II

AB Title compds. I [U = O, S, SO, SO₂, NH and derivs.; V = (un)substituted alkylene; W = CONH₂ and derivs. or a direct bond linking V to R₃; R₁ = (un)substituted hetero/aryl with the proviso that R₁ is not unsubstituted Ph; R₃ = (un)substituted hetero/aryl; and their pharmaceutically acceptable salts] were prepared as HIV reverse transcriptase and HIV replication inhibitors. Tetrazoles I are useful in the prevention and treatment of infection by HIV and in the prevention, delay in the onset, and treatment of AIDS. For example, cyclization of 2,4,6-trimethylphenyl isothiocyanate with NaN₃, S-alkylation with chloroacetic acid, and amidation of the acid with 2-chloro-3-aminopyridine gave tetrazole II. I displayed IC₅₀'s less than 2 μM for the inhibition of HIV reverse transcriptase in vitro. I had IC₉₅'s less than 10 μM for the inhibition of acute HIV infection of T-lymphoid cells. I can be employed in pharmaceutical compns., optionally in combination with other antivirals, immunomodulators, antibiotics or vaccines.

L4 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:136505 CAPLUS

DOCUMENT NUMBER: 142:240421

TITLE: Preparation of N-(4-sulfamoylphenyl) amides as inhibitors of voltage-gated sodium channels

INVENTOR(S): Gonzales, Jesus E., III; Termin, Andreas P.; Martinborough, Esther; Zimmerman, Nicole

PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA

SOURCE: PCT Int. Appl., 332 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

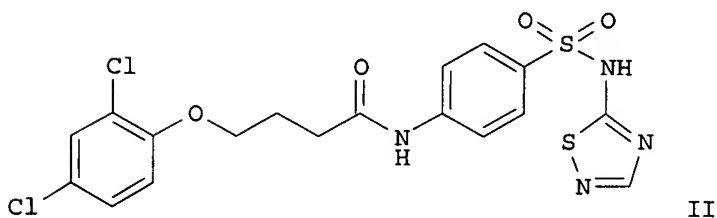
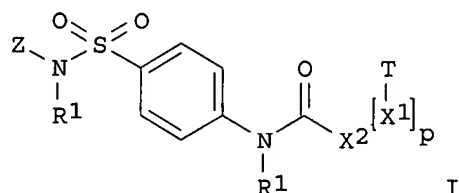
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| | | | | |
|---|----|----------|--|------------|
| WO 2005013914 | A2 | 20050217 | WO 2004-US25827 | 20040809 |
| WO 2005013914 | A3 | 20050721 | | |
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| AU 2004263179 | A1 | 20050217 | AU 2004-263179 | 20040809 |
| CA 2539227 | A1 | 20050217 | CA 2004-2539227 | 20040809 |
| EP 1673357 | A2 | 20060628 | EP 2004-780632 | 20040809 |
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| CN 1863785 | A | 20061115 | CN 2004-80029349 | 20040809 |
| JP 2007501804 | T | 20070201 | JP 2006-522803 | 20040809 |
| NO 2006001092 | A | 20060427 | NO 2006-1092 | 20060307 |
| IN 2006KN00546 | A | 20070803 | IN 2006-KN546 | 20060307 |
| PRIORITY APPLN. INFO.: | | | US 2003-493659P | P 20030808 |
| | | | US 2004-584717P | P 20040704 |
| | | | WO 2004-US25827 | W 20040809 |
| OTHER SOURCE(S): | | | CASREACT 142:240421; MARPAT 142:240421 | |
| GI | | | | |



AB The title compds. I [R1 = H, (un)substituted alkyl; X1 = O, S, (un)substituted NH; p = 0-1; X2 = (un)substituted alkylene; Z = thiazolyl, imidazolyl, oxazolyl, etc.; T = (un)substituted Ph, 8-14 membered (non)aromatic bicyclic or tricyclic ring having 0-5 heteroatoms selected from O, S, N, NH, SO, SO2, etc.], useful as inhibitors of voltage-gated sodium channels, were prepared. E.g., a multi-step synthesis of II, starting from 2,4-dichlorophenol and Et 4-bromobutyrate, was given. The compds. I were found to inhibit voltage-gated sodium channels at 25.0 μ M or less. The invention also provides pharmaceutically acceptable compns. comprising the compds. I and methods of using the compns. in the treatment of various disorders.

DOCUMENT NUMBER: 142:126547
 TITLE: Identification of Novel Parasitic Cysteine Protease Inhibitors Using Virtual Screening. 1. The ChemBridge Database
 AUTHOR(S): Desai, Prashant V.; Patny, Akshay; Sabnis, Yogesh; Tekwani, Babu; Gut, Jiri; Rosenthal, Philip; Srivastava, Anuradha; Avery, Mitchell
 CORPORATE SOURCE: Department of Medicinal Chemistry, School of Pharmacy and Department of Chemistry and Biochemistry, University of Mississippi, University, MS, 38677-1848, USA
 SOURCE: Journal of Medicinal Chemistry (2004), 47(26), 6609-6615
 CODEN: JMCMAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Trypanosomiasis, leishmaniasis, and malaria are major parasitic diseases in developing countries. The existing chemotherapy of these diseases suffers from lack of safe and effective drugs and/or the presence of widespread drug resistance. Cysteine proteases are exciting novel targets for antiparasitic drug design. Virtual screening was performed in an attempt to identify novel drug-like nonpeptide inhibitors of parasitic cysteine proteases. The ChemBridge database consisting of approx. 241 000 compds. was screened against homol. models of falcipain-2 and falcipain-3 in three consecutive stages of docking. A total of 24 diverse inhibitors were identified from an initial group of 84, of which 12 compds. appeared to be dual inhibitors of falcipain-2 and falcipain-3. Four compds. showed inhibition of both the malarial cysteine proteases as well as Leishmania donovani cysteine protease.

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:878302 CAPLUS

DOCUMENT NUMBER: 141:360694

TITLE: Combination therapy using an 11 β -hydroxysteroid dehydrogenase type 1 inhibitor and an antihypertensive agent for the treatment of metabolic syndrome and related diseases and disorders

INVENTOR(S): Kampen, Gita Camilla Tejlgaard; Andersen, Henrik Sune

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 297 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| WO 2004089416 | A2 | 20041021 | WO 2004-DK254 | 20040406 |
| WO 2004089416 | A3 | 20050303 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| EP 1615666 | A2 | 20060118 | EP 2004-725887 | 20040406 |

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|---|----|-----------------|-------------------------|
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | |
| JP 2006522750 | T | 20061005 | JP 2006-504357 20040406 |
| EP 1782859 | A2 | 20070509 | EP 2007-102700 20040406 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | |
| EP 1785424 | A2 | 20070516 | EP 2007-102701 20040406 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | |
| EP 1787982 | A2 | 20070523 | EP 2007-102177 20040406 |
| EP 1787982 | A3 | 20070530 | |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | |
| US 2006111348 | A1 | 20060525 | US 2005-254125 20051011 |
| PRIORITY APPLN. INFO.: | | | |
| | | DK 2003-565 | A 20030411 |
| | | DK 2003-566 | A 20030411 |
| | | DK 2003-567 | A 20030411 |
| | | DK 2003-569 | A 20030411 |
| | | DK 2003-570 | A 20030411 |
| | | DK 2003-571 | A 20030411 |
| | | US 2003-467284P | P 20030502 |
| | | US 2003-467362P | P 20030502 |
| | | US 2003-467363P | P 20030502 |
| | | US 2003-467437P | P 20030502 |
| | | US 2003-467453P | P 20030502 |
| | | US 2003-467800P | P 20030502 |
| | | DK 2003-776 | A 20030522 |
| | | DK 2003-777 | A 20030522 |
| | | US 2003-474421P | P 20030530 |
| | | US 2003-475157P | P 20030602 |
| | | DK 2003-972 | A 20030627 |
| | | DK 2003-988 | A 20030630 |
| | | DK 2003-989 | A 20030630 |
| | | DK 2003-990 | A 20030630 |
| | | DK 2003-998 | A 20030702 |
| | | US 2003-486078P | P 20030710 |
| | | US 2003-486094P | P 20030710 |
| | | US 2003-486095P | P 20030710 |
| | | US 2003-486097P | P 20030710 |
| | | US 2003-486098P | P 20030710 |
| | | DK 2003-1910 | A 20031222 |
| | | DK 2004-9 | A 20040106 |
| | | US 2004-537099P | P 20040116 |
| | | EP 2004-725884 | A3 20040406 |
| | | EP 2004-725888 | A3 20040406 |
| | | EP 2004-725889 | A3 20040406 |
| | | WO 2004-DK254 | W 20040406 |

OTHER SOURCE(S): MARPAT 141:360694

AB The invention discloses combination therapy comprising the administration of an 11 β -hydroxysteroid dehydrogenase type 1 inhibitor and an antihypertensive agent useful for treating, preventing and reducing the risk of developing insulin resistance, dyslipidemia, obesity, hypertension and other related diseases and disorders.

L4 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:878301 CAPLUS

DOCUMENT NUMBER: 141:360721

TITLE: Combination therapy using an 11 β -hydroxysteroid dehydrogenase type 1 inhibitor and a glucocorticoid receptor agonist to treat cancer and inflammation-associated diseases and to minimize the side effects associated with glucocorticoid receptor agonist therapy

INVENTOR(S): Kampen, Gita Camilla Tejlgaard; Andersen, Henrik Sune

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 305 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| WO 2004089415 | A2 | 20041021 | WO 2004-DK248 | 20040406 |
| WO 2004089415 | A3 | 20050310 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| EP 1615667 | A2 | 20060118 | EP 2004-725890 | 20040406 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | |
| JP 2006522744 | T | 20061005 | JP 2006-504351 | 20040406 |
| EP 1782859 | A2 | 20070509 | EP 2007-102700 | 20040406 |
| R: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | |
| EP 1785424 | A2 | 20070516 | EP 2007-102701 | 20040406 |
| R: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | |
| EP 1787982 | A2 | 20070523 | EP 2007-102177 | 20040406 |
| EP 1787982 | A3 | 20070530 | | |
| R: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | |
| US 2006094699 | A1 | 20060504 | US 2005-246814 | 20051007 |
| PRIORITY APPLN. INFO.: | | | DK 2003-565 | A 20030411 |
| | | | DK 2003-566 | A 20030411 |
| | | | DK 2003-568 | A 20030411 |
| | | | DK 2003-569 | A 20030411 |
| | | | DK 2003-570 | A 20030411 |
| | | | DK 2003-571 | A 20030411 |
| | | | US 2003-467284P | P 20030502 |
| | | | US 2003-467362P | P 20030502 |
| | | | US 2003-467363P | P 20030502 |
| | | | US 2003-467443P | P 20030502 |
| | | | US 2003-467453P | P 20030502 |
| | | | US 2003-467800P | P 20030502 |
| | | | DK 2003-776 | A 20030522 |
| | | | DK 2003-778 | A 20030522 |
| | | | US 2003-475157P | P 20030602 |
| | | | US 2003-475195P | P 20030602 |
| | | | DK 2003-972 | A 20030627 |
| | | | DK 2003-988 | A 20030630 |
| | | | DK 2003-989 | A 20030630 |
| | | | DK 2003-990 | A 20030630 |
| | | | DK 2003-998 | A 20030702 |
| | | | US 2003-486078P | P 20030710 |
| | | | US 2003-486094P | P 20030710 |
| | | | US 2003-486095P | P 20030710 |
| | | | US 2003-486097P | P 20030710 |
| | | | US 2003-486098P | P 20030710 |
| | | | DK 2003-1910 | A 20031222 |
| | | | DK 2004-9 | A 20040106 |

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|-----------------|----|----------|
| US 2004-537099P | P | 20040116 |
| DK 2003-567 | A | 20030411 |
| DK 2003-777 | A | 20030522 |
| EP 2004-725884 | A3 | 20040406 |
| EP 2004-725888 | A3 | 20040406 |
| EP 2004-725889 | A3 | 20040406 |
| WO 2004-DK248 | W | 20040406 |

OTHER SOURCE(S): MARPAT 141:360721

AB The invention discloses combination therapy comprising the administration of an 11 β -hydroxysteroid dehydrogenase type 1 inhibitor and a glucocorticoid receptor agonist for treating some forms of cancer, diseases and disorders having inflammation as a component, and to minimize the side effects associated with glucocorticoid receptor agonist therapy.

L4 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:872724 CAPLUS

DOCUMENT NUMBER: 141:366223

TITLE: Pharmaceutical use of substituted amides as 11 β -hydroxysteroid dehydrogenase type 1 modulators, especially inhibitors, for treating metabolic

INVENTOR(S): Andersen, Henrik Sune; Kampen, Gita Camilla Tejlgaard; Christensen, Inge Thoger; Mogensen, John Patrick; Larsen, Annette Rosendal; Kilburn, John Paul

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 236 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

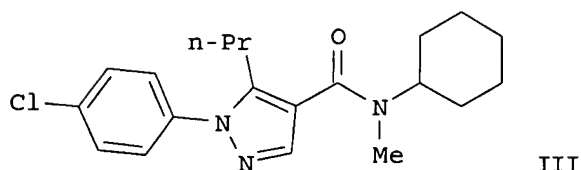
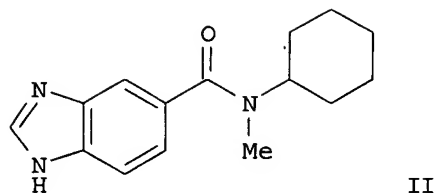
FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| WO 2004089470 | A2 | 20041021 | WO 2004-DK250 | 20040406 |
| WO 2004089470 | A3 | 20041223 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| EP 1615698 | A2 | 20060118 | EP 2004-725891 | 20040406 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | |
| JP 2006522746 | T | 20061005 | JP 2006-504353 | 20040406 |
| EP 1787982 | A2 | 20070523 | EP 2007-102177 | 20040406 |
| EP 1787982 | A3 | 20070530 | | |
| R: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | |
| US 2006111366 | A1 | 20060525 | US 2005-265794 | 20051011 |
| PRIORITY APPLN. INFO.: | | | DK 2003-565 | A 20030411 |
| | | | US 2003-467800P | P 20030502 |
| | | | DK 2003-972 | A 20030627 |
| | | | DK 2003-988 | A 20030630 |
| | | | DK 2003-989 | A 20030630 |
| | | | DK 2003-990 | A 20030630 |
| | | | DK 2003-998 | A 20030702 |
| | | | US 2003-486078P | P 20030710 |
| | | | US 2003-486094P | P 20030710 |

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| US 2003-486095P | P | 20030710 |
| US 2003-486097P | P | 20030710 |
| US 2003-486098P | P | 20030710 |
| DK 2003-1910 | A | 20031222 |
| DK 2004-9 | A | 20040106 |
| US 2004-537099P | P | 20040116 |
| EP 2004-725888 | A3 | 20040406 |
| WO 2004-DK250 | W | 20040406 |

OTHER SOURCE(S) : MARPAT 141:366223
GI



AB The invention is directed to the use of substituted amides of formula R3CONR1R2 (I), and their optical isomers or mixture of optical isomers, including racemates, and tautomers, their prodrugs, pharmaceutically acceptable salts, [wherein R1 = (un)substituted cyclo/hetcyclo/aryl/hetaryl/alkyl, het/aryl, etc.; R2 = H, (un)substituted aryl/cycloalkyl/alkylcarboxy/alkyl, het/aryl; or R1NR2 = (un)substituted (un)saturated bi/tricyclic ring containing 4-10 carbons, and 0-2 heteroatoms;

R3 = (un)substituted cyclo/hetcyclo/aryl/alkoxy/hetaryl/arylalkyl/alkyl, alkenyl, alkynyl, het/aryl] for modulating, especially inhibiting, the activity of 11 β -hydroxysteroid dehydrogenase type 1 (11 β -HSD1) and use of their pharmaceutical compns. in the treatment, prevention, prophylaxis of a range of medical disorders where a decreased intracellular concentration of active glucocorticoid is desirable. The invention is also directed to the preparation of certain title compds. I. For instance, acylation of 1H-benzimidazole-5-carboxylic acid with N-cyclohexyl-N-methylamine in THF in the presence of HOBT/EDAC/DIPEA gave amide II in 49% yield. Pyrazole-4-carboxamide (III) inhibited 11 β -HSD1 enzyme with an IC50 = 0.04 μ M. I are useful for treating metabolic disorders, type II diabetes, impaired glucose tolerance, impaired fasting glucose, dyslipidemia, obesity, hypertension, diabetic late complications, neurodegenerative and psychiatric disorders and adverse effects of treatment or therapy with glucocorticoid receptor agonists.

L4 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:493691 CAPLUS

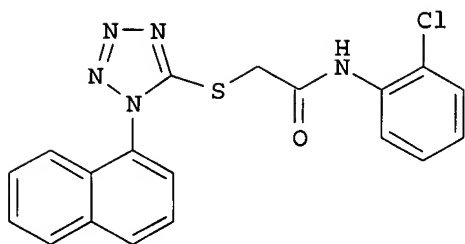
DOCUMENT NUMBER: 141:54347

TITLE: A preparation of heterocyclic non-nucleoside reverse

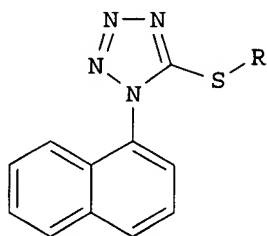
transcriptase inhibitors, useful for the treatment of
HIV-1

INVENTOR(S) : Simoneau, Bruno; Thavonekham, Bounkham; Landry, Serge;
O'Meara, Jeffrey; Yoakim, Christiane; Faucher,
Anne-Marie
PATENT ASSIGNEE(S) : Boehringer Ingelheim International G.m.b.H., Germany
SOURCE: PCT Int. Appl., 102 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|------------------|------------|
| WO 2004050643 | A2 | 20040617 | WO 2003-CA1870 | 20031201 |
| WO 2004050643 | A3 | 20040910 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| US 2005054639 | A1 | 20050310 | US 2003-719369 | 20031121 |
| CA 2505033 | A1 | 20040617 | CA 2003-2505033 | 20031201 |
| AU 2003287806 | A1 | 20040623 | AU 2003-287806 | 20031201 |
| EP 1569919 | A2 | 20050907 | EP 2003-779603 | 20031201 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | |
| BR 2003016385 | A | 20051004 | BR 2003-16385 | 20031201 |
| CN 1720043 | A | 20060111 | CN 2003-80105164 | 20031201 |
| JP 2006514936 | T | 20060518 | JP 2004-555920 | 20031201 |
| IN 2005DN02266 | A | 20070406 | IN 2005-DN2266 | 20050527 |
| MX 2005PA05871 | A | 20050829 | MX 2005-PA5871 | 20050602 |
| NO 2005002712 | A | 20050627 | NO 2005-2712 | 20050606 |
| PRIORITY APPLN. INFO.: | | | US 2002-430796P | P 20021204 |
| | | | WO 2003-CA1870 | W 20031201 |
| OTHER SOURCE(S) : | MARPAT 141:54347 | | | |
| GI | | | | |



I



II

AB The invention relates to heterocyclic compds. of formula Ar1-X-W-Ar2 [wherein: Ar1 is (un)substituted 5- or 6-membered aromatic heterocycle containing

N, O, or S; Ar2 is (un)substituted Ph or pyridine derivative; X is a heteroatom (O, S, S(O), or SO2, etc.), a valence bond or an optionally substituted divalent methylene, etc.; W is a divalent alkylene or (un)substituted alkyleneamido, amido, or oxy radicals, etc.], useful for the treatment of HIV-1. The invention compds. were screened in reverse transcriptase assays (enzymic assay, P24 cellular assay, and C8166 HIV-1 Luciferase assay). The compds. have inhibitory activity against Wild Type (WT) and single or double mutant strains of HIV. For instance, tetrazole derivative I (WT IC50 < 50 nM; K103N/Y181C EC50 > 100 nM) was prepared via heterocyclization of 1-naphthalenylisothiocyanate with NaN3, acetylation of the obtained tetrazolethione derivative II (R = H), and subsequent amidation of the obtained carboxylic acid II (R = CH2CO2H) by o-chloroaniline (example 1, entry 208).

L4 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:308354 CAPLUS

DOCUMENT NUMBER: 140:317121

TITLE: Non-nucleoside reverse transcriptase inhibitors for use in treatment of HIV infection

INVENTOR(S): Girardet, Jean-Luc; Zhang, Zhijun; Hamatake, Robert; de la Rosa Hernandez, Martha A.; Gunic, Esmir; Hong, Zhi; Kim, Hongwoo; Koh, Yung-Hyo; Nilar, Shahul; Shaw, Stephanie; Yao, Nanhua

PATENT ASSIGNEE(S): Ribapharm Inc., USA

SOURCE: PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2004030611 | A2 | 20040415 | WO 2003-US27433 | 20030822 |
| WO 2004030611 | A3 | 20040617 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
 PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
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 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 CA 2496565 A1 20040415 CA 2003-2496565 20030822
 AU 2003295324 A1 20040423 AU 2003-295324 20030822
 BR 2003013747 A 20050621 BR 2003-13747 20030822
 EP 1545483 A2 20050629 EP 2003-786506 20030822
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 CN 1697650 A 20051116 CN 2003-824337 20030822
 JP 2006505543 T 20060216 JP 2004-541500 20030822
 MX 2005PA02070 A 20050705 MX 2005-PA2070 20050222
 IN 2005CN00455 A 20070406 IN 2005-CN455 20050322
 US 2006135556 A1 20060622 US 2005-526249 20050803
 PRIORITY APPLN. INFO.: WO 2002-US26816 A 20020823
 WO 2003-US27433 W 20030822

OTHER SOURCE(S): MARPAT 140:317121
 AB Carbonyl amides HET-L-C(Y)-NR1R2 [I; HET = heterocycle; L = linker with at
 least two atoms; Y = O, S, NR3; R1,R3 = H, halo, lower alkyl; R2 =
 (substituted)aryl, cycloalkyl, cycloalkenyl, heterocycle] are disclosed
 which function in vitro and in vivo as non-nucleoside inhibitors of
 reverse transcriptase, particularly of HIV reverse transcriptase.
 . Therefore, I may be employed in the treatment of HIV1-infected patients.

L4 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2001:168177 CAPLUS
 DOCUMENT NUMBER: 134:217175
 TITLE: Sugar alcohol phosphatases or sugar phosphatases as
 novel targets for antiparasitic agents and use of the
 inhibitors in biocides and pharmaceuticals
 INVENTOR(S): Thevelein, Johan; Van Dijck, Patrick
 PATENT ASSIGNEE(S): K.U. Leuven Research & Development, Belg.
 SOURCE: PCT Int. Appl., 106 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| WO 2001016357 | A2 | 20010308 | WO 2000-EP8410 | 20000829 |
| WO 2001016357 | A3 | 20011129 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG EP 1081232 A1 20010307 EP 1999-202805 19990830 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO EP 1206568 A2 20020522 EP 2000-964054 20000829 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL PRIORITY APPLN. INFO.: EP 1999-202805 A 19990830 EP 2000-870145 A 20000627 WO 2000-EP8410 W 20000829 | | | | |

AB The use of an enzyme found in fungi, bacteria, insects, nematodes, worms, mites, protozoa etc. as a target in a screening assay is described by means of which agents capable of inhibiting the function of that enzyme may be identified. The screening assay may include complete cell or purified-enzyme assays. In particular, the present invention relates to a screening assay for inhibitors or suppressors of sugar alc. phosphatases or sugar phosphatases, and more in particular inhibitors or suppressors of trehalose-6-phosphate phosphatase, as well as prepsns., in particular, pharmaceutical prepsns., which include inhibitors or suppressors obtained from the screening assay. Inhibitors are described as well as applications in biocides and antifungal pharmaceuticals.

L4 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:518294 CAPLUS

DOCUMENT NUMBER: 131:165332

TITLE: α -Alkoxy- and α -thioalkoxyamide
neuropeptide Y NPY5 receptor antagonists and
therapeutic methods using them

INVENTOR(S): Connell, Richard D.; Lease, Timothy G.; Ladouceur,
Gaetan H.; Osterhout, Martin H.

PATENT ASSIGNEE(S): Bayer Corporation, USA

SOURCE: U.S., 18 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 5939462 | A | 19990817 | US 1998-23351 | 19980213 |
| US 6245817 | B1 | 20010612 | US 1999-295073 | 19990420 |
| PRIORITY APPLN. INFO.: | | | US 1997-82318P | P 19970214 |
| | | | US 1998-23351 | A3 19980213 |

OTHER SOURCE(S): MARPAT 131:165332

AB The invention provides α -alkoxy and α -thioalkoxyamide compns., and methods of administering the compns. to mammals, to treat disorders such as obesity that are mediated by NPY and especially those mediated by NPY via the Y5 receptor.

REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:668117 CAPLUS

DOCUMENT NUMBER: 129:290069

TITLE: Quinolinic sulfide derivatives acting as nmda receptor
antagonists and process for preparation thereof

INVENTOR(S): Park, No Sang; Seong, Churl Min; Jung, Young Sik;
Choi, Jin Il; Lee, Chang Woo; Chung, Yong Jun; Choi,
Seung Won; Kong, Jae Yang; Park, Woo Kyu

PATENT ASSIGNEE(S): Korea Research Institute of Chemical Technology, S.
Korea

SOURCE: Eur. Pat. Appl., 42 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|--|----------|-----------------|----------|
| EP 869122 | A1 | 19981007 | EP 1998-400731 | 19980327 |
| EP 869122 | B1 | 20021204 | | |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | |

| | | | | |
|------------------------|----|----------|----------------|------------|
| AT 229004 | T | 20021215 | AT 1998-400731 | 19980327 |
| JP 10310575 | A | 19981124 | JP 1998-84760 | 19980330 |
| JP 3130502 | B2 | 20010131 | | |
| US 5990126 | A | 19991123 | US 1998-52752 | 19980331 |
| PRIORITY APPLN. INFO.: | | | KR 1997-11958 | A 19970331 |
| | | | KR 1997-13818 | A 19970415 |
| | | | KR 1997-58546 | A 19971106 |

OTHER SOURCE(S): CASREACT 129:290069; MARPAT 129:290069

AB A class of quinolinic sulfide derivs. are potent and specific antagonists at the strychnine insensitive glycine binding site on the NMDA receptor complex with an pharmacol. advantageous profile. They may be useful in treatment or prevention of neurodegenerative disorders. Particularly, the compds. included in the present invention are especially useful for minimizing damage of the central nervous system arising as a consequence of ischemic or hypoxic condition such as stroke, hypoglycemia, cerebral ischemia, cardiac arrest, and phys. trauma. They are also useful in prevention of chronic neurodegenerative disorders including epilepsy, Alzheimer's disease, Huntington's disease and Parkinsonism. By virtue of their NMDA receptor antagonist properties, the present compds. may also use as anticonvulsant, analgesic, antidepressant, anxiolytic, and antischizophrenic agent.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:568808 CAPLUS

DOCUMENT NUMBER: 129:202952

TITLE: Preparation of α -alkoxy and α -thioalkoxyamides as NPY5 receptor antagonists

INVENTOR(S): Connell, Richard D.; Lease, Timothy G.; Ladouceur, Gaetan H.; Osterhout, Martin H.

PATENT ASSIGNEE(S): Bayer Corporation, USA

SOURCE: PCT Int. Appl., 64 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

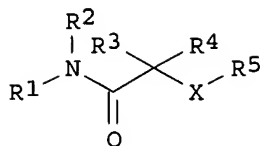
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

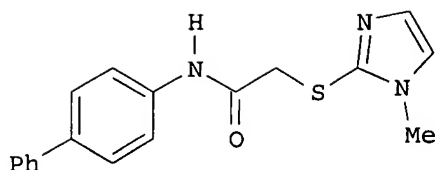
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| ----- | ---- | ----- | ----- | ----- |
| WO 9835944 | A1 | 19980820 | WO 1998-US2122 | 19980205 |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| CA 2251580 | A1 | 19980820 | CA 1998-2251580 | 19980205 |
| AU 9862671 | A | 19980908 | AU 1998-62671 | 19980205 |
| EP 927166 | A1 | 19990707 | EP 1998-904909 | 19980205 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| JP 2000510870 | T | 20000822 | JP 1998-535803 | 19980205 |
| PRIORITY APPLN. INFO.: | | | US 1997-800795 | A 19970214 |
| | | | WO 1998-US2122 | W 19980205 |

OTHER SOURCE(S): MARPAT 129:202952

GI



I



II

AB The title compds. [I; R1-R5 = H, halo, OH, etc.], useful to treat disorders such as obesity and bulimia that are mediated by NPY and especially those mediated by NPY via the Y5 receptor, were prepared and formulated. Thus, reaction of 2-mercapto-1-methylimidazole with N-biphenyl-2-chloroacetamide in the presence of K2CO3 in DMF afforded the title compound II which showed IC50 of 0.64 μ M against hNPY5.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:222728 CAPLUS

DOCUMENT NUMBER: 118:222728

TITLE: Silver halide photographic material containing nucleating agent

INVENTOR(S): Usagawa, Yasushi; Sanpei, Takeshi; Onodera, Akira

PATENT ASSIGNEE(S): Konica K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 34 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 04076530 | A | 19920311 | JP 1990-191601 | 19900718 |
| PRIORITY APPLN. INFO.: | | | JP 1990-191601 | 19900718 |

AB The title material which comprises a support having thereon ≥ 1 Ag halide emulsion layer contains ≥ 1 hydrazine derivative R1(NR2)nC(:Y)N(R3)R4LR5NHNHCOCOX [R1, R2 = H, (substituted) alkyl, etc.; R3 = H, (substituted) benzyl, alkoxy, alkyl; R4, R5 = arylene; X = NR6R7, OR8; R6 to R8 = H, (substituted) alkyl, aryl; Y = S, O; L = a divalent linking group; n = 0 or 1]. The title material also contains ≥ 1 nucleating agent. The title material gives high-contrast images.

L4 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:224616 CAPLUS

DOCUMENT NUMBER: 116:224616

TITLE: Silver halide photographic material containing hydrazine core-forming agent for hard image

INVENTOR(S): Yagihara, Morio; Kato, Kazunobu

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|------------|
| JP 03230152 | A | 19911014 | JP 1990-25501 | 19900205 |
| US 5124230 | A | 19920623 | US 1991-650384 | 19910204 |
| PRIORITY APPLN. INFO.: | | | JP 1990-24229 | A 19900202 |
| | | | JP 1990-25501 | A 19900205 |

AB The photog. material contains, in an emulsion layer or a hydrophilic colloid layer, hydrazine derivative $R_1SCH_2CONHL_1NA_1NA_2C(:O)H$ (A_1, A_2 = essential H, sulfonyl, acyl; L_1 = divalent group; R_1 = aromatic, heterocycle residue). The photog. material gives images with excellent hardness and dot quality.

L4 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:237563 CAPLUS

DOCUMENT NUMBER: 114:237563

TITLE: Formation of direct-positive images, and direct-positive silver halide photographic materials

INVENTOR(S): Usagawa, Yasushi; Ishii, Fumio; Kida, Shuji; Yoshizawa, Tomomi; Tosaka, Yasuo

PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

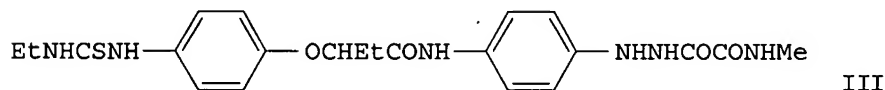
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 02287536 | A | 19901127 | JP 1989-111249 | 19890428 |
| JP 2835343 | B2 | 19981214 | | |
| PRIORITY APPLN. INFO.: | | | JP 1989-111249 | 19890428 |

GI



AB The image-forming method involves development of an imagewise exposed internal latent image Ag halide emulsion layer in the presence of $R_1(NR_2)nC(:Y)NR_3ZLZ_1NHNHC(:O)C(:O)X$ (I) or $ArNHNHC(:O)R$ (II) in amts. sufficient to produce fogging [R_1-2 = H, alkyl, Ph, naphthyl, cyclohexyl, pyridyl, pyrrolidyl; n = 0, 1; R_3 = H, benzyl, alkoxy, alkyl; Z, Z_1 = arylene; X = NR_4R_5, OR_6 ; R_4-6 = H, alkyl, Ph, naphthyl; Y = S, O; L = divalent group; A = aryl having anchoring group(s) or group(s) enhancing adsorption of Ag halide; R = alkyl that may be substituted by alkoxy, aryloxy, heterocyclyloxy, SH, alkylthio, arylthio, alkylsulfonyl, arylsulfonyl, heterocyclylsulfonyl, acyl, Cl, Br, alkoxycarbonyl, aryloxy, carbamoyl, alkylcarbamoyl, arylcarbamoyl, NH_2 , alkylamino, arylamino, acylamino, alkoxycarbonylamino, acyloxy, alkylaminocarbonyloxy, arylaminocarbonyloxy, sulfo, sulfamoyl, alkylsulfamoyl, arylsulfamoyl; 2 protons of $NHNH$ groups in I and II may be substituted]. The direct-pos. photog. materials contain I or II. These materials and method provide high-d. image by processing with low-pH developer with low min. d., using relatively short fogging development. Increase of min. d. during storage of the material is suppressed. Thus, a direct-pos. color photog. paper with 7 layers was prepared; the 5th, 3rd, and 1st layers, which were blue-, green-, and red-sensitive, resp., contained internal latent-image Ag(Br,Cl) emulsion and 2 mmol/mol Ag fogging agent III. Sensitometric exposure and processing using developers with pH 10.5 and 11.0 showed maximum d. for magenta 2.03 and 2.23, resp., and min. d. 0.13 and 0.15, resp.

L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:199286 CAPLUS

DOCUMENT NUMBER: 114:199286

TITLE: New analgetically effective derivatives of

1-phenyl-5-mercaptotetrazole

AUTHOR(S): Kejha, Jiri; Slukova, D.; Brunova, B.; Maturova, E.; Grimova, J.

CORPORATE SOURCE: Vyzk. Ustav. Farm. Biochem., Prague, Czech.

SOURCE: Cesko-Slovenska Farmacie (1990), 39(7), 294-8
CODEN: CKFRAY; ISSN: 0009-0530

DOCUMENT TYPE: Journal

LANGUAGE: Czech

AB A group of 19 title derivs. was prepared and tested for oral toxicity in mice and analgetic and anti-inflammatory activities in rats. The acute toxicity was found with doses >1 g/kg. No derivative had any appreciable anti-inflammatory effects, but one derivative had an analgetic activity comparable to that of aminophenazone. Preliminary testing for antiulcer effects showed no such activity.

L4 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:515571 CAPLUS

DOCUMENT NUMBER: 95:115571

TITLE: Tetrazolyloxycarboxamides and their use as herbicides

INVENTOR(S): Forster, Heinz; Hofer, Wolfgang; Maurer, Fritz; Mues, Volker; Eue, Ludwig; Schmidt, Robert Rudolf

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Eur. Pat. Appl., 53 pp.
CODEN: EPXXDW

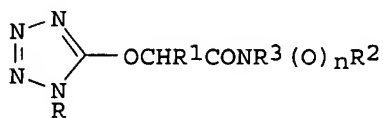
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------|------------------|----------|-----------------|------------|
| ----- | ---- | ----- | ----- | ----- |
| EP 29183 | A1 | 19810527 | EP 1980-106848 | 19801106 |
| EP 29183 | B1 | 19830112 | | |
| R: AT, BE, CH, DE, FR, GB, IT, NL, SE | | | | |
| DE 2946432 | A1 | 19810611 | DE 1979-2946432 | 19791117 |
| US 4399285 | A | 19830816 | US 1980-200171 | 19801024 |
| AT 2217 | T | 19830115 | AT 1980-106848 | 19801106 |
| DK 8004881 | A | 19810518 | DK 1980-4881 | 19801114 |
| BR 8007458 | A | 19810526 | BR 1980-7458 | 19801114 |
| JP 56086175 | A | 19810713 | JP 1980-159665 | 19801114 |
| ES 496849 | A1 | 19811101 | ES 1980-496849 | 19801114 |
| ZA 8007095 | A | 19811125 | ZA 1980-7095 | 19801114 |
| CA 1152988 | A1 | 19830830 | CA 1980-364650 | 19801114 |
| IL 61485 | A | 19841231 | IL 1980-61485 | 19801114 |
| AU 8064428 | A | 19810521 | AU 1980-64428 | 19801117 |
| AU 540102 | B2 | 19841101 | | |
| HU 26575 | A2 | 19830928 | HU 1980-2747 | 19801117 |
| HU 188755 | B | 19860528 | | |
| PRIORITY APPLN. INFO.: | | | DE 1979-2946432 | A 19791117 |
| | | | EP 1980-106848 | A 19801106 |
| OTHER SOURCE(S): | MARPAT 95:115571 | | | |
| GI | | | | |



I

AB The herbicidal compds. I [R = (substituted) alkyl or aryl; R1 = H, alkyl; R2, R3 = H, (substituted) aliphatic, cycloaliph., aryl, aralkyl, n = 0, 1; when n = 0, R2R3N may form ring] were prepared by the reaction of a halotetrazole with HOCHR1CONR3(O)nR2. Thus, hydroxyacetic acid

2-methylpiperidide reacted with 5-chloro-1-phenyl-1H-tetrazole in Me3COH containing Me3COK to give 69% I (R = Ph, R1 = H, n = 0, NR2R3 = 2-methyl-1-piperidinyl).

=> d hist

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FILE 'REGISTRY' ENTERED AT 10:30:10 ON 15 AUG 2007

L1 STRUCTURE UPLOADED
L2 50 S L1 SAM
L3 4346 S L1 FULL

FILE 'CAPLUS, MEDLINE' ENTERED AT 10:32:14 ON 15 AUG 2007

L4 21 S L3

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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 155.43 | 330.59 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -16.38 | -16.38 |

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DICTIONARY FILE UPDATES: 14 AUG 2007 HIGHEST RN 944643-48-5

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<http://www.cas.org/support/stngen/stndoc/properties.html>

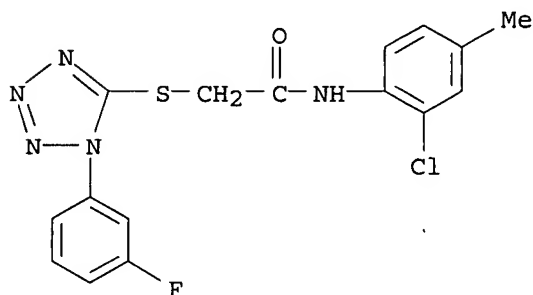
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56 CHLOROS
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4609 2-CHLORO-4-METHYLPHENYL
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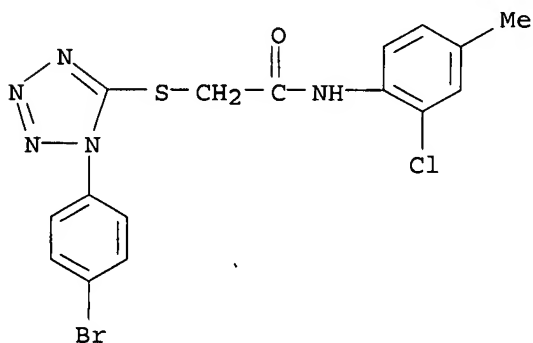
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RN 930742-12-4 REGISTRY
ED Entered STN: 18 Apr 2007
CN Acetamide, N-(2-chloro-4-methylphenyl)-2-[[1-(3-fluorophenyl)-1H-tetrazol-5-yl]thio]- (CA INDEX NAME)
MF C16 H13 Cl F N5 O S
SR Chemical Library
Supplier: Enamine
LC STN Files: CHEMCATS



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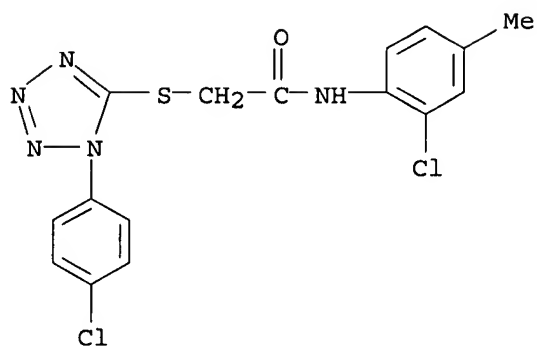
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ED Entered STN: 11 Jul 2006
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SR Chemical Library
Supplier: Scientific Exchange, Inc.
LC STN Files: CHEMCATS



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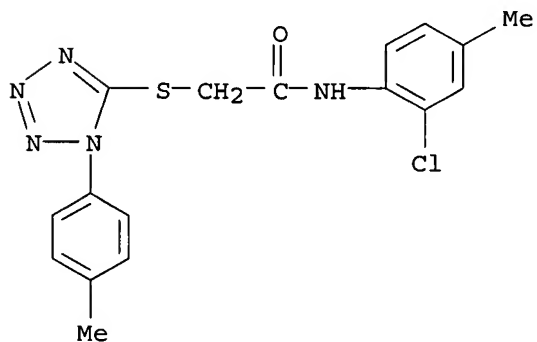
L5 ANSWER 3 OF 53 REGISTRY COPYRIGHT 2007 ACS on STN
RN 892042-80-7 REGISTRY
ED Entered STN: 11 Jul 2006
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MF C16 H13 Cl2 N5 O S
SR Chemical Library
Supplier: Scientific Exchange, Inc.

LC STN Files: CHEMCATS



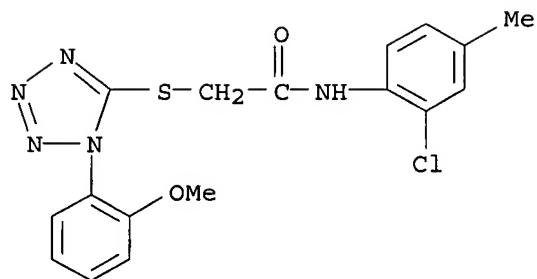
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RN 892042-65-8 REGISTRY
ED Entered STN: 11 Jul 2006
CN Acetamide, N-(2-chloro-4-methylphenyl)-2-[[1-(4-methylphenyl)-1H-tetrazol-5-yl]thio]- (CA INDEX NAME)
MF C17 H16 Cl N5 O S
SR Chemical Library
Supplier: Scientific Exchange, Inc.
LC STN Files: CHEMCATS



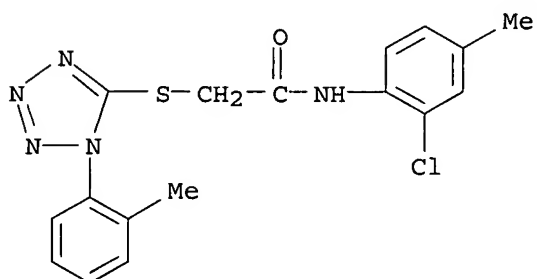
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L5 ANSWER 5 OF 53 REGISTRY COPYRIGHT 2007 ACS on STN
RN 892042-57-8 REGISTRY
ED Entered STN: 11 Jul 2006
CN Acetamide, N-(2-chloro-4-methylphenyl)-2-[[1-(2-methoxyphenyl)-1H-tetrazol-5-yl]thio]- (CA INDEX NAME)
MF C17 H16 Cl N5 O2 S
SR Chemical Library
Supplier: Scientific Exchange, Inc.
LC STN Files: CHEMCATS



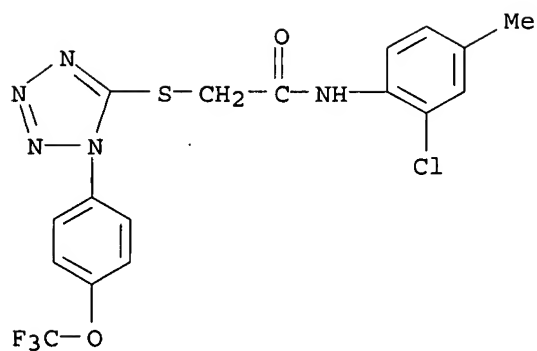
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L5 ANSWER 6 OF 53 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 892042-49-8 REGISTRY
 ED Entered STN: 11 Jul 2006
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 MF C17 H16 Cl N5 O S
 SR Chemical Library
 Supplier: Scientific Exchange, Inc.
 LC STN Files: CHEMCATS



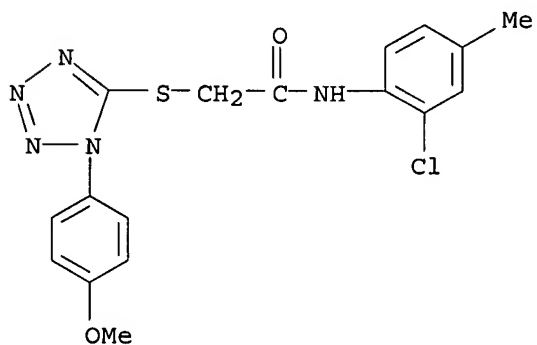
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 7 OF 53 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 879343-78-9 REGISTRY
 ED Entered STN: 05 Apr 2006
 CN Acetamide, N-(2-chloro-4-methylphenyl)-2-[[1-[4-(trifluoromethoxy)phenyl]-1H-tetrazol-5-yl]thio]- (9CI) (CA INDEX NAME)
 MF C17 H13 Cl F3 N5 O2 S
 SR Chemical Library
 Supplier: Enamine
 LC STN Files: CHEMCATS



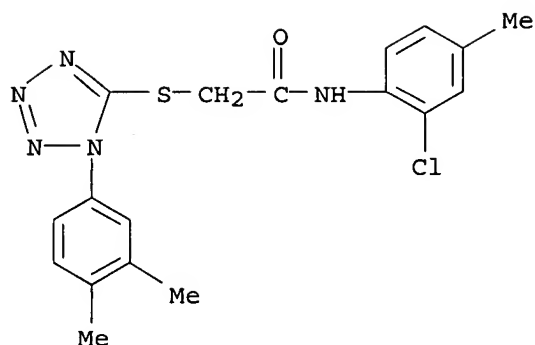
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 8 OF 53 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 879302-78-0 REGISTRY
 ED Entered STN: 05 Apr 2006
 CN Acetamide, N-(2-chloro-4-methylphenyl)-2-[[1-(4-methoxyphenyl)-1H-tetrazol-5-yl]thio]- (9CI) (CA INDEX NAME)
 MF C17 H16 Cl N5 O2 S
 SR Chemical Library
 Supplier: Scientific Exchange, Inc.
 LC STN Files: CHEMCATS



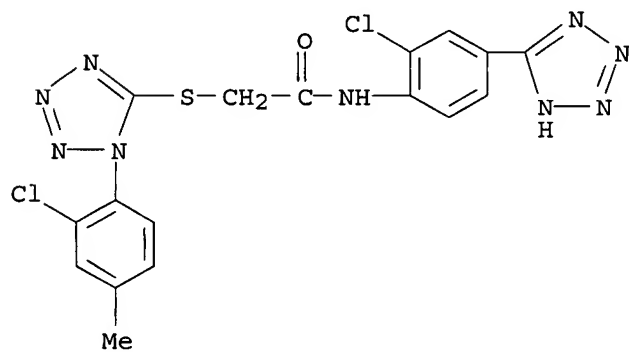
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 9 OF 53 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 875620-80-7 REGISTRY
 ED Entered STN: 02 Mar 2006
 CN Acetamide, N-(2-chloro-4-methylphenyl)-2-[[1-(3,4-dimethylphenyl)-1H-tetrazol-5-yl]thio]- (9CI) (CA INDEX NAME)
 MF C18 H18 Cl N5 O S
 SR Chemical Library
 Supplier: Aurora Fine Chemicals
 LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 10 OF 53 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 871472-26-3 REGISTRY
 ED Entered STN: 09 Jan 2006
 CN Acetamide, 2-[[1-(2-chloro-4-methylphenyl)-1H-tetrazol-5-yl]thio]-N-[2-chloro-4-(1H-tetrazol-5-yl)phenyl]- (9CI) (CA INDEX NAME)
 MF C17 H13 Cl2 N9 O S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

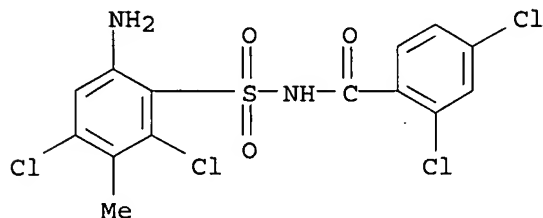
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 L6 0 BENZOIC AMIDE/CN

=> s benzoic amide
 991215 BENZOIC
 5428723 AMIDE
 1075 AMIDES
 5428723 AMIDE
 (AMIDE OR AMIDES)
 L7 1 BENZOIC AMIDE
 (BENZOIC (W) AMIDE)

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L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 29003-65-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzamide, N-[(6-amino-2,4-dichloro-m-tolyl)sulfonyl]-2,4-dichloro- (8CI)
 (CA INDEX NAME)
 OTHER NAMES:
 CN N-(6-Amino-2,4-dichloro-3-methylbenzenesulfonyl)-2,4-dichlorobenzoic
 amide
 MF C14 H10 Cl4 N2 O3 S
 LC STN Files: CA, CAPLUS



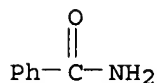
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s benzamide/cn
 L8 1 BENZAMIDE/CN

=> d

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 55-21-0 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzamide (CA INDEX NAME)
 OTHER NAMES:
 CN Benzenecarboxamide
 CN Benzoic acid amide
 CN Benzoylamine
 CN NSC 3114
 CN Phenylamide
 CN Phenylcarboxamide
 DR 27208-38-4
 MF C7 H7 N O
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS,
 BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,
 CHEMLIST, CIN, CSCHM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HSDB*,
 IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA,
 PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2,
 USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4520 REFERENCES IN FILE CA (1907 TO DATE)
400 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4530 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d hist

(FILE 'HOME' ENTERED AT 10:29:53 ON 15 AUG 2007)

FILE 'REGISTRY' ENTERED AT 10:30:10 ON 15 AUG 2007

L1 STRUCTURE UPLOADED
L2 50 S L1 SAM
L3 4346 S L1 FULL

FILE 'CAPLUS, MEDLINE' ENTERED AT 10:32:14 ON 15 AUG 2007

L4 21 S L3

FILE 'REGISTRY' ENTERED AT 10:44:18 ON 15 AUG 2007

L5 53 S L3 AND 2-CHLORO-4-METHYLPHENYL
L6 0 S BENZOIC AMIDE/CN
L7 1 S BENZOIC AMIDE
L8 1 S BENZAMIDE/CN

=> s l3 and benzamide

874002 BENZAMIDE
L9 180 L3 AND BENZAMIDE

=> s l9 and l5

L10 4 L9 AND L5

=> d ibib 1-4

'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data

IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):cn

L10 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2007 ACS on STN
CN Benzamide, 3-chloro-4-[[[1-(2-chloro-4-methylphenyl)-1H-tetrazol-5-yl]thio]acetyl]amino]-N-ethyl- (9CI) (CA INDEX NAME)

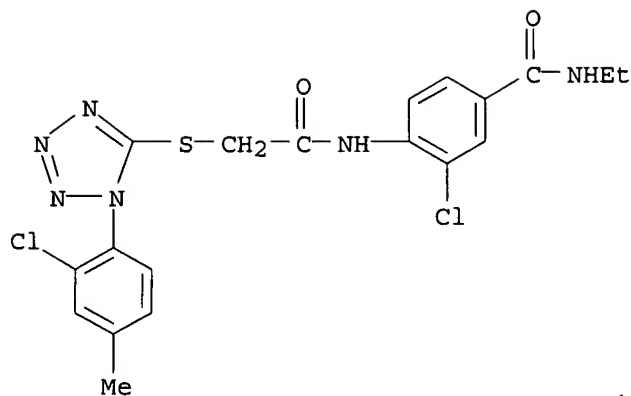
L10 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2007 ACS on STN
CN Benzamide, 3-chloro-4-[[[1-(2-chloro-4-methylphenyl)-1H-tetrazol-5-yl]thio]acetyl]amino]-N-methyl- (9CI) (CA INDEX NAME)

L10 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2007 ACS on STN
CN Benzamide, 4-[[[1-(2-chloro-4-methylphenyl)-1H-tetrazol-5-yl]thio]acetyl]amino]-3-nitro- (9CI) (CA INDEX NAME)

L10 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2007 ACS on STN
CN Benzamide, 3-chloro-4-[[[1-(2-chloro-4-methylphenyl)-1H-tetrazol-5-yl]thio]acetyl]amino]- (9CI) (CA INDEX NAME)

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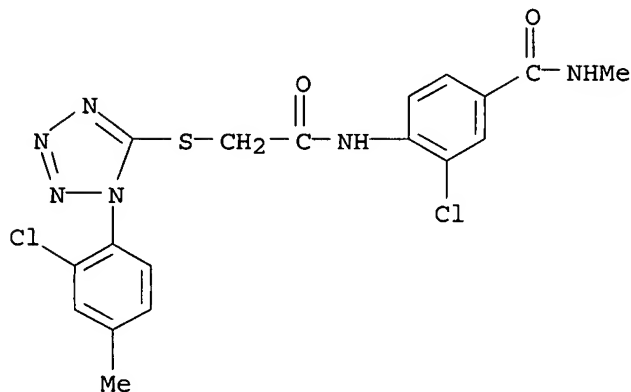
L10 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2007 ACS on STN
RN 871472-15-0 REGISTRY
ED Entered STN: 09 Jan 2006
CN Benzamide, 3-chloro-4-[[[1-(2-chloro-4-methylphenyl)-1H-tetrazol-5-yl]thio]acetyl]amino]-N-ethyl- (9CI) (CA INDEX NAME)
MF C19 H18 Cl2 N6 O2 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

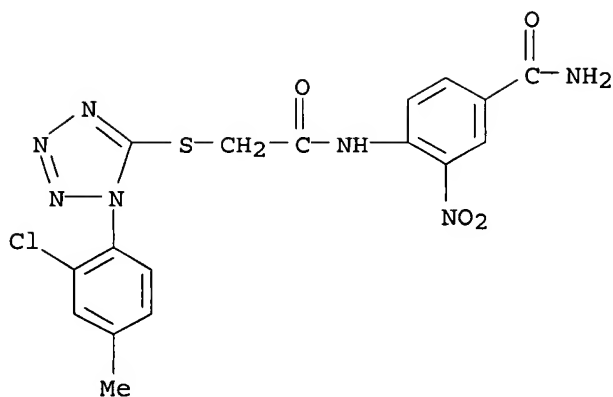
L10 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2007 ACS on STN
RN 871472-14-9 REGISTRY
ED Entered STN: 09 Jan 2006
CN Benzamide, 3-chloro-4-[[[1-(2-chloro-4-methylphenyl)-1H-tetrazol-5-yl]thio]acetyl]amino]-N-methyl- (9CI) (CA INDEX NAME)
MF C18 H16 Cl2 N6 O2 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

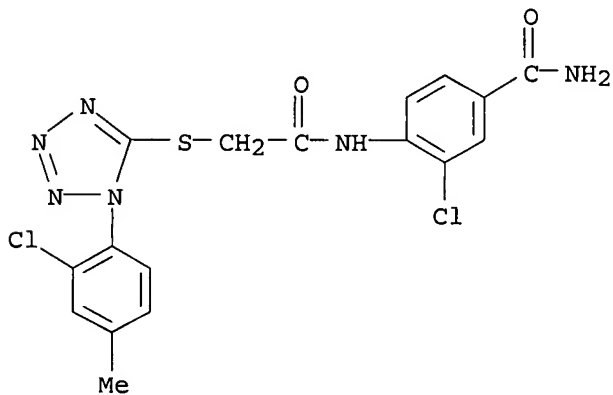
L10 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2007 ACS on STN
RN 705970-98-5 REGISTRY
ED Entered STN: 08 Jul 2004
CN Benzamide, 4-[[[1-(2-chloro-4-methylphenyl)-1H-tetrazol-5-yl]thio]acetyl]amino]-3-nitro- (9CI) (CA INDEX NAME)
MF C17 H14 Cl N7 O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2007 ACS on STN
RN 705970-94-1 REGISTRY
ED Entered STN: 08 Jul 2004
CN Benzamide, 3-chloro-4-[[[1-(2-chloro-4-methylphenyl)-1H-tetrazol-5-yl]thio]acetyl]amino]- (9CI) (CA INDEX NAME)
MF C17 H14 Cl2 N6 O2 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus medline

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

88.95

419.54

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-16.38

FILE 'CAPLUS' ENTERED AT 10:51:37 ON 15 AUG 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 10:51:37 ON 15 AUG 2007

=> d hist

(FILE 'HOME' ENTERED AT 10:29:53 ON 15 AUG 2007)

FILE 'REGISTRY' ENTERED AT 10:30:10 ON 15 AUG 2007

L1 STRUCTURE UPLOADED
L2 50 S L1 SAM
L3 4346 S L1 FULL

FILE 'CAPLUS, MEDLINE' ENTERED AT 10:32:14 ON 15 AUG 2007

L4 21 S L3

FILE 'REGISTRY' ENTERED AT 10:44:18 ON 15 AUG 2007

L5 53 S L3 AND 2-CHLORO-4-METHYLPHENYL
L6 0 S BENZOIC AMIDE/CN
L7 1 S BENZOIC AMIDE
L8 1 S BENZAMIDE/CN
L9 180 S L3 AND BENZAMIDE
L10 4 S L9 AND L5

FILE 'CAPLUS, MEDLINE' ENTERED AT 10:51:37 ON 15 AUG 2007

=> s l9

L11 4 L9

=> d ibib 1-4

L11 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:315155 CAPLUS

DOCUMENT NUMBER: 145:8103

TITLE: Tetrazole thioacetanilides: Potent non-nucleoside inhibitors of WT HIV reverse transcriptase and its K103N mutant

AUTHOR(S): Muraglia, Ester; Kinzel, Olaf D.; Laufer, Ralph; Miller, Michael D.; Moyer, Gregory; Munshi, Vandna; Orvieto, Federica; Palumbi, Maria Cecilia; Pescatore, Giovanna; Rowley, Michael; Williams, Peter D.; Summa, Vincenzo

CORPORATE SOURCE: Department of Medicinal Chemistry, IRBM/MRL Rome, Rome, 00040, Italy

SOURCE: Bioorganic & Medicinal Chemistry Letters (2006), 16(10), 2748-2752

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 145:8103

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1311545 CAPLUS

DOCUMENT NUMBER: 144:51586

TITLE: Preparation of acetamide derivatives as reverse transcriptase inhibitors for treatment of HIV

INVENTOR(S): Deroy, Patrick; Faucher, Anne-Marie; Gagnon, Alexandre; Landry, Serge; Morin, Sebastien; O'Meara, Jeffrey; Simoneau, Bruno; Thavonekham, Bounkham; Yoakim, Christiane

PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany;
Boehringer Ingelheim Pharma GmbH & Co KG
SOURCE: PCT Int. Appl., 206 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2005118575 | A1 | 20051215 | WO 2005-CA907 | 20050530 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 2005282907 | A1 | 20051222 | US 2005-137831 | 20050524 |
| CA 2555633 | A1 | 20051215 | CA 2005-2555633 | 20050530 |
| EP 1756091 | A1 | 20070228 | EP 2005-757660 | 20050530 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | | |
| PRIORITY APPLN. INFO.: | | | US 2004-575888P | P 20040601 |
| | | | WO 2005-CA907 | W 20050530 |
| OTHER SOURCE(S): CASREACT 144:51586; MARPAT 144:51586 | | | | |
| REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | | | |

L11 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1291889 CAPLUS
DOCUMENT NUMBER: 144:36351
TITLE: Preparation of tetrazolyl derivatives as HIV reverse transcriptase inhibitors
INVENTOR(S): Shaw-Reid, Cathryn A.; Miller, Michael D.; Hazuda, Daria J.; Ferrer, Marc; Sur, Sylvie M.; Summa, Vincenzo; Lyle, Terry A.; Kinzel, Olaf; Pescatore, Giovanna; Muraglia, Ester; Orvieto, Federica; Williams, Peter D.
PATENT ASSIGNEE(S): Merck & Co., Inc., USA; Istituto di Ricerche di Biologia Molecolare P. Angeletti S.p.A.
SOURCE: PCT Int. Appl., 81 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2005115147 | A2 | 20051208 | WO 2005-US16671 | 20050512 |
| WO 2005115147 | A3 | 20070419 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG, AP, EA, EP, OA

PRIORITY APPLN. INFO.: US 2004-572168P P 20040518
 OTHER SOURCE(S): MARPAT 144:36351

L11 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:493691 CAPLUS

DOCUMENT NUMBER: 141:54347

TITLE: A preparation of heterocyclic non-nucleoside reverse
 transcriptase inhibitors, useful for the treatment of
 HIV-1

INVENTOR(S): Simoneau, Bruno; Thavonekham, Bounkham; Landry, Serge;
 O'Meara, Jeffrey; Yoakim, Christiane; Faucher,
 Anne-Marie

PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 102 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|------------------|------------|
| WO 2004050643 | A2 | 20040617 | WO 2003-CA1870 | 20031201 |
| WO 2004050643 | A3 | 20040910 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| US 2005054639 | A1 | 20050310 | US 2003-719369 | 20031121 |
| CA 2505033 | A1 | 20040617 | CA 2003-2505033 | 20031201 |
| AU 2003287806 | A1 | 20040623 | AU 2003-287806 | 20031201 |
| EP 1569919 | A2 | 20050907 | EP 2003-779603 | 20031201 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | |
| BR 2003016385 | A | 20051004 | BR 2003-16385 | 20031201 |
| CN 1720043 | A | 20060111 | CN 2003-80105164 | 20031201 |
| JP 2006514936 | T | 20060518 | JP 2004-555920 | 20031201 |
| IN 2005DN02266 | A | 20070406 | IN 2005-DN2266 | 20050527 |
| MX 2005PA05871 | A | 20050829 | MX 2005-PA5871 | 20050602 |
| NO 2005002712 | A | 20050627 | NO 2005-2712 | 20050606 |
| PRIORITY APPLN. INFO.: | | | US 2002-430796P | P 20021204 |
| | | | WO 2003-CA1870 | W 20031201 |

OTHER SOURCE(S): MARPAT 141:54347

=> d hist

(FILE 'HOME' ENTERED AT 10:29:53 ON 15 AUG 2007)

FILE 'REGISTRY' ENTERED AT 10:30:10 ON 15 AUG 2007

L1 STRUCTURE UPLOADED

L2 50 S L1 SAM

L3 4346 S L1 FULL

FILE 'CAPLUS, MEDLINE' ENTERED AT 10:32:14 ON 15 AUG 2007
L4 21 S L3

FILE 'REGISTRY' ENTERED AT 10:44:18 ON 15 AUG 2007
L5 53 S L3 AND 2-CHLORO-4-METHYLPHENYL
L6 0 S BENZOIC AMIDE/CN
L7 1 S BENZOIC AMIDE
L8 1 S BENZAMIDE/CN
L9 180 S L3 AND BENZAMIDE
L10 4 S L9 AND L5

FILE 'CAPLUS, MEDLINE' ENTERED AT 10:51:37 ON 15 AUG 2007
L11 4 S L9

=> s l5
L12 3 L5

=> d ibib 1-3

L12 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1311545 CAPLUS
DOCUMENT NUMBER: 144:51586
TITLE: Preparation of acetamide derivatives as reverse
transcriptase inhibitors for treatment of HIV
INVENTOR(S): Deroy, Patrick; Faucher, Anne-Marie; Gagnon,
Alexandre; Landry, Serge; Morin, Sebastien; O'Meara,
Jeffrey; Simoneau, Bruno; Thavonekham, Bounkham;
Yoakim, Christiane
PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany;
Boehringer Ingelheim Pharma GmbH & Co KG
SOURCE: PCT Int. Appl., 206 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| WO 2005118575 | A1 | 20051215 | WO 2005-CA907 | 20050530 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
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| US 2005282907 | A1 | 20051222 | US 2005-137831 | 20050524 |
| CA 2555633 | A1 | 20051215 | CA 2005-2555633 | 20050530 |
| EP 1756091 | A1 | 20070228 | EP 2005-757660 | 20050530 |
| R: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | |
| PRIORITY APPLN. INFO.: | | | US 2004-575888P | P 20040601 |
| | | | WO 2005-CA907 | W 20050530 |
| OTHER SOURCE(S): | CASREACT 144:51586; MARPAT 144:51586 | | | |
| REFERENCE COUNT: | 4 | | | |
| | THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | | |

L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1291889 CAPLUS

DOCUMENT NUMBER: 144:36351
 TITLE: Preparation of tetrazolyl derivatives as HIV reverse transcriptase inhibitors
 INVENTOR(S): Shaw-Reid, Cathryn A.; Miller, Michael D.; Hazuda, Daria J.; Ferrer, Marc; Sur, Sylvie M.; Summa, Vincenzo; Lyle, Terry A.; Kinzel, Olaf; Pescatore, Giovanna; Muraglia, Ester; Orvieto, Federica; Williams, Peter D.
 PATENT ASSIGNEE(S): Merck & Co., Inc., USA; Istituto di Ricerche di Biologia Molecolare P. Angeletti S.p.A.
 SOURCE: PCT Int. Appl., 81 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| WO 2005115147 | A2 | 20051208 | WO 2005-US16671 | 20050512 |
| WO 2005115147 | A3 | 20070419 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, AP, EA, EP, OA | | | | |

PRIORITY APPLN. INFO.: US 2004-572168P P 20040518
 OTHER SOURCE(S): MARPAT 144:36351

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:493691 CAPLUS
 DOCUMENT NUMBER: 141:54347
 TITLE: A preparation of heterocyclic non-nucleoside reverse transcriptase inhibitors, useful for the treatment of HIV-1
 INVENTOR(S): Simoneau, Bruno; Thavonekham, Bounkham; Landry, Serge; O'Meara, Jeffrey; Yoakim, Christiane; Faucher, Anne-Marie
 PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 102 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| ----- | ---- | ----- | ----- | ----- |
| WO 2004050643 | A2 | 20040617 | WO 2003-CA1870 | 20031201 |
| WO 2004050643 | A3 | 20040910 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, | | | | |

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| | ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, | |
| | TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | |
| US 2005054639 | A1 20050310 | US 2003-719369 20031121 |
| CA 2505033 | A1 20040617 | CA 2003-2505033 20031201 |
| AU 2003287806 | A1 20040623 | AU 2003-287806 20031201 |
| EP 1569919 | A2 20050907 | EP 2003-779603 20031201 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, | | |
| IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | |
| BR 2003016385 | A 20051004 | BR 2003-16385 20031201 |
| CN 1720043 | A 20060111 | CN 2003-80105164 20031201 |
| JP 2006514936 | T 20060518 | JP 2004-555920 20031201 |
| IN 2005DN02266 | A 20070406 | IN 2005-DN2266 20050527 |
| MX 2005PA05871 | A 20050829 | MX 2005-PA5871 20050602 |
| NO 2005002712 | A 20050627 | NO 2005-2712 20050606 |
| PRIORITY APPLN. INFO.: | | US 2002-430796P P 20021204 |
| | | WO 2003-CA1870 W 20031201 |
| OTHER SOURCE(S): | MARPAT 141:54347 | |

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(FILE 'HOME' ENTERED AT 10:29:53 ON 15 AUG 2007)

FILE 'REGISTRY' ENTERED AT 10:30:10 ON 15 AUG 2007

L1 STRUCTURE UPLOADED
L2 50 S L1 SAM
L3 4346 S L1 FULL

FILE 'CAPLUS, MEDLINE' ENTERED AT 10:32:14 ON 15 AUG 2007

L4 21 S L3

FILE 'REGISTRY' ENTERED AT 10:44:18 ON 15 AUG 2007

L5 53 S L3 AND 2-CHLORO-4-METHYLPHENYL
L6 0 S BENZOIC AMIDE/CN
L7 1 S BENZOIC AMIDE
L8 1 S BENZAMIDE/CN
L9 180 S L3 AND BENZAMIDE
L10 4 S L9 AND L5

FILE 'CAPLUS, MEDLINE' ENTERED AT 10:51:37 ON 15 AUG 2007

L11 4 S L9
L12 3 S L5

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L13 2 L10

=> d ibib 1-2

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1311545 CAPLUS

DOCUMENT NUMBER: 144:51586

TITLE: Preparation of acetamide derivatives as reverse transcriptase inhibitors for treatment of HIV

INVENTOR(S): Deroy, Patrick; Faucher, Anne-Marie; Gagnon, Alexandre; Landry, Serge; Morin, Sebastien; O'Meara, Jeffrey; Simoneau, Bruno; Thavonekham, Bounkham; Yoakim, Christiane

PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany; Boehringer Ingelheim Pharma GmbH & Co KG

SOURCE: PCT Int. Appl., 206 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2005118575 | A1 | 20051215 | WO 2005-CA907 | 20050530 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 2005282907 | A1 | 20051222 | US 2005-137831 | 20050524 |
| CA 2555633 | A1 | 20051215 | CA 2005-2555633 | 20050530 |
| EP 1756091 | A1 | 20070228 | EP 2005-757660 | 20050530 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | | |
| PRIORITY APPLN. INFO.: | | | US 2004-575888P | P 20040601 |
| | | | WO 2005-CA907 | W 20050530 |
| OTHER SOURCE(S): CASREACT 144:51586; MARPAT 144:51586 | | | | |
| REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS | | | | |
| RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | | | |
| L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN | | | | |
| ACCESSION NUMBER: 2004:493691 CAPLUS | | | | |
| DOCUMENT NUMBER: 141:54347 | | | | |
| TITLE: A preparation of heterocyclic non-nucleoside reverse | | | | |
| transcriptase inhibitors, useful for the treatment of | | | | |
| HIV-1 | | | | |
| INVENTOR(S): Simoneau, Bruno; Thavonekham, Bounkham; Landry, Serge; | | | | |
| O'Meara, Jeffrey; Yoakim, Christiane; Faucher, | | | | |
| Anne-Marie | | | | |
| PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany | | | | |
| SOURCE: PCT Int. Appl., 102 pp. | | | | |
| CODEN: PIXXD2 | | | | |
| DOCUMENT TYPE: Patent | | | | |
| LANGUAGE: English | | | | |
| FAMILY ACC. NUM. COUNT: 1 | | | | |
| PATENT INFORMATION: | | | | |

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2004050643 | A2 | 20040617 | WO 2003-CA1870 | 20031201 |
| WO 2004050643 | A3 | 20040910 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 2005054639 | A1 | 20050310 | US 2003-719369 | 20031121 |
| CA 2505033 | A1 | 20040617 | CA 2003-2505033 | 20031201 |
| AU 2003287806 | A1 | 20040623 | AU 2003-287806 | 20031201 |
| EP 1569919 | A2 | 20050907 | EP 2003-779603 | 20031201 |
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| BR 2003016385 | A | 20051004 | BR 2003-16385 | 20031201 |

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|------------------------|---|----------|------------------|------------|
| CN 1720043 | A | 20060111 | CN 2003-80105164 | 20031201 |
| JP 2006514936 | T | 20060518 | JP 2004-555920 | 20031201 |
| IN 2005DN02266 | A | 20070406 | IN 2005-DN2266 | 20050527 |
| MX 2005PA05871 | A | 20050829 | MX 2005-PA5871 | 20050602 |
| NO 2005002712 | A | 20050627 | NO 2005-2712 | 20050606 |
| PRIORITY APPLN. INFO.: | | | US 2002-430796P | P 20021204 |
| | | | WO 2003-CA1870 | W 20031201 |

OTHER SOURCE(S): MARPAT 141:54347

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L3 4346 S L1 FULL

FILE 'CAPLUS, MEDLINE' ENTERED AT 10:32:14 ON 15 AUG 2007

L4 21 S L3

FILE 'REGISTRY' ENTERED AT 10:44:18 ON 15 AUG 2007

L5 53 S L3 AND 2-CHLORO-4-METHYLPHENYL
L6 0 S BENZOIC AMIDE/CN
L7 1 S BENZOIC AMIDE
L8 1 S BENZAMIDE/CN
L9 180 S L3 AND BENZAMIDE
L10 4 S L9 AND L5

FILE 'CAPLUS, MEDLINE' ENTERED AT 10:51:37 ON 15 AUG 2007

L11 4 S L9
L12 3 S L5
L13 2 S L10

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| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 19.35 | 438.89 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -16.38 |

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NEWS 2 MAY 01 New CAS web site launched